

What is Claimed is:

1. A method for controlling ON/OFF of LED in a scanner that uses a LED as light source, comprising steps of switching the LED on and off according to the frequency of the optical signals received by the scanner.
- 5 2. The method of claim 1, wherein the LED is a white light LED.
3. The method of claim 1, wherein the LED is an assembly of a red light LED, a green light LED and a blue light LED.
4. The method of claim 1, wherein the scanner reads red light optical signals when the LED is switched on.
- 10 5. The method of claim 1, wherein the scanner reads green light optical signals when the LED is switched on.
6. The method of claim 1, wherein the scanner reads blue light optical signals when the LED is switched on.
7. The method of claim 1, wherein the scanner reads R/G/B optical signals when the
15 LED is switched on.
8. The method of claim 1, wherein the scanner reads the optical signals through a charge-coupled device (CCD).
9. The method of claim 1, wherein the scanner controls the frequency of reading optical signals and the ON/OFF of the LED through a time pulse.
- 20 10. The method of claim 9, wherein the LED is switched on to allow the scanner to receive the optical signals when the time pulse is at a low potential.
11. The method of claim 9, wherein the LED is switched off to allow the scanner to stop receiving the optical signals when the time pulse is at a high potential.